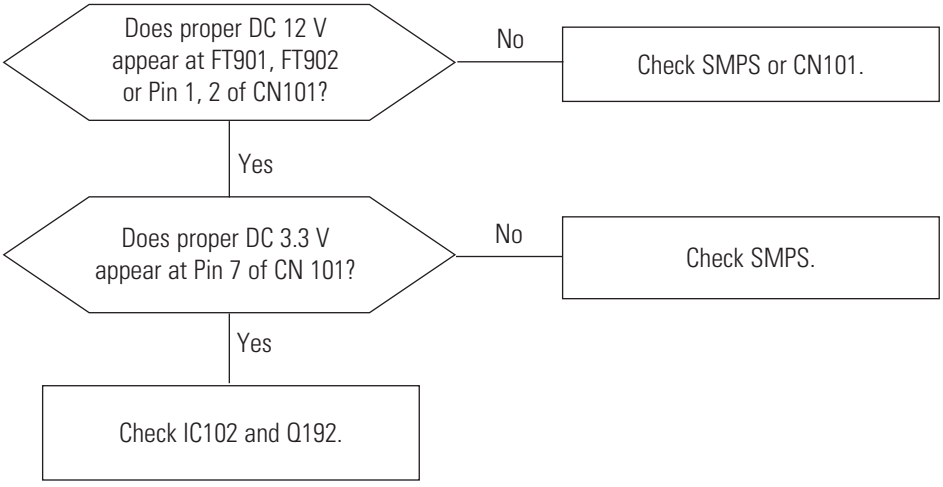
4 Troubleshooting

Notes: 1. Before troubleshooting, setup the PC's display as below.
- Resolution: 1024 x 768
- H-frequency: 48 kHz
- V-frequency: 60 Hz

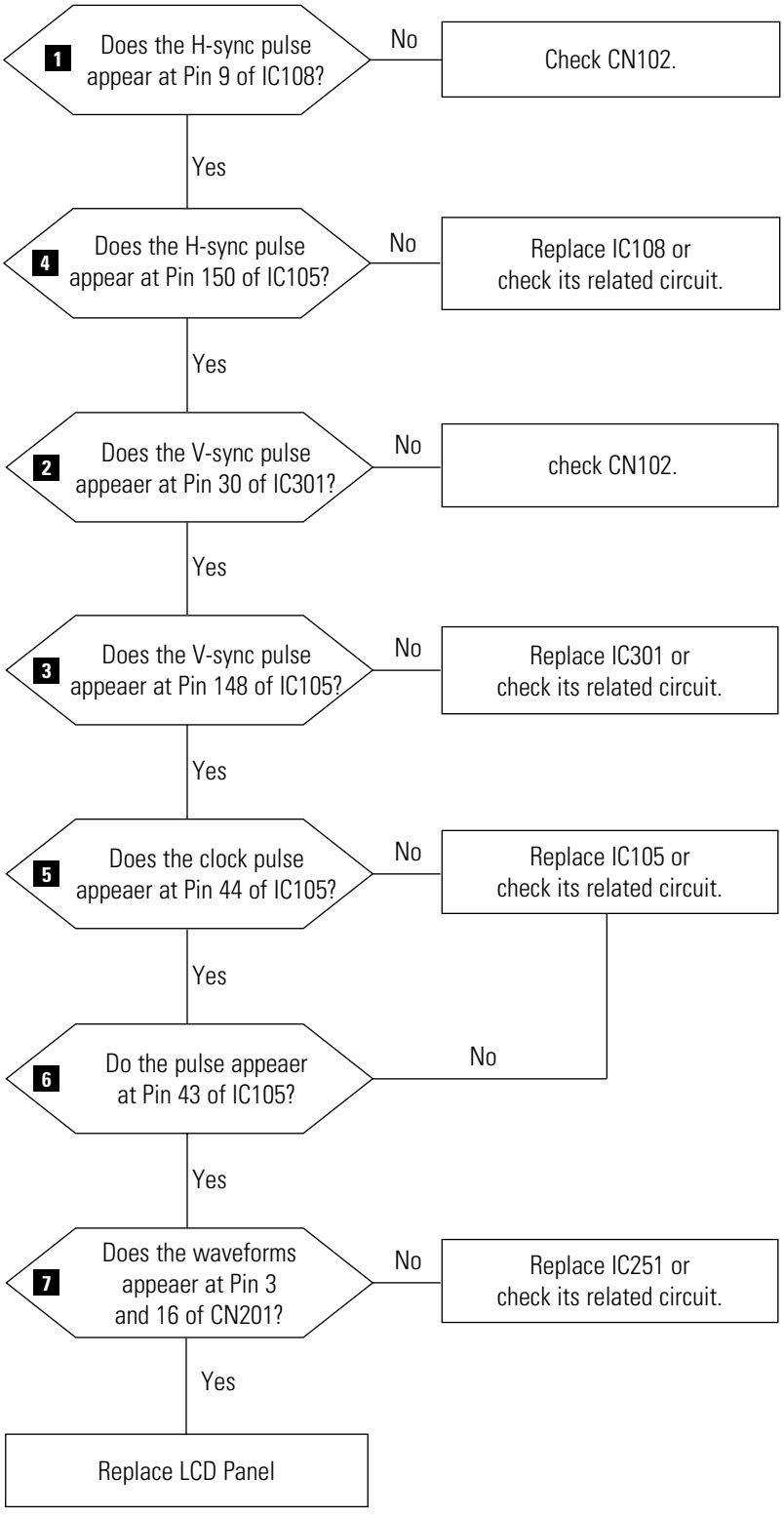
2. If no picture appears, make sure the power cord is correctly connected.
3. Check the following circuits.
- No raster appears: Audio PCB, SMPS PCB, Main PCB
- 12V develop but no screen: Main PCB
- 12V does not develop: Audio PCB, SMPS PCB

4. If you push and hold the "EXIT" button for more than 5 seconds, the monitor automatically turns back to the factory preset.

4-1 No Power (GH15LS/GH15ES/GH15MS)

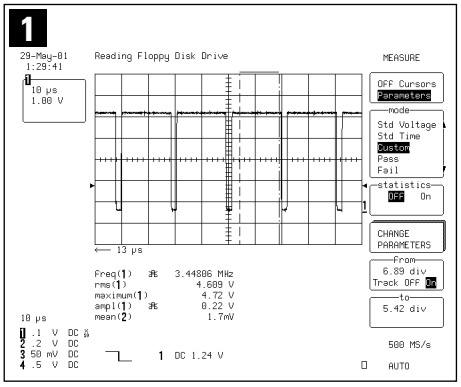

Does proper DC 12 V appear at FT901, FT902 or Pin 1, 2 of CN101?
No
Check SMPS or CN101.
Yes
Does proper DC 3.3 V appear at Pin 7 of CN 101?
No
Check SMPS.
Yes
Check IC102 and Q192.

4-2 No Video

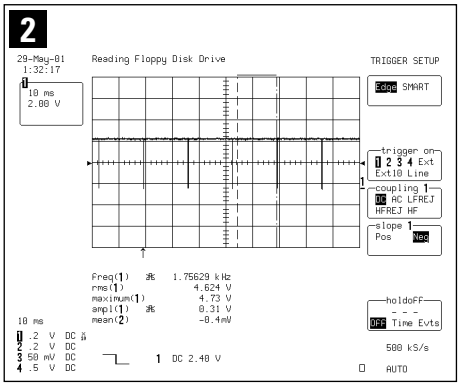

1
Does the H-sync pulse appear at Pin 9 of IC108?
No
Check CN102.
Yes
4
Does the H-sync pulse appear at Pin 150 of IC105?
No
Replace IC108 or check its related circuit.
Yes
2
Does the V-sync pulse appeaer at Pin 30 of IC301?
No
check CN102.
Yes
3
Does the V-sync pulse appeaer at Pin 148 of IC105?
No
Replace IC301 or check its related circuit.
Yes
5
Does the clock pulse appeaer at Pin 44 of IC105?
No
Replace IC105 or check its related circuit.
Yes
6
Do the pulse appeaer at Pin 43 of IC105?
No
Yes
7
Does the waveforms appeaer at Pin 3 and 16 of CN201?
No
Replace IC251 or check its related circuit.
Yes
Replace LCD Panel

WAVEFORMS

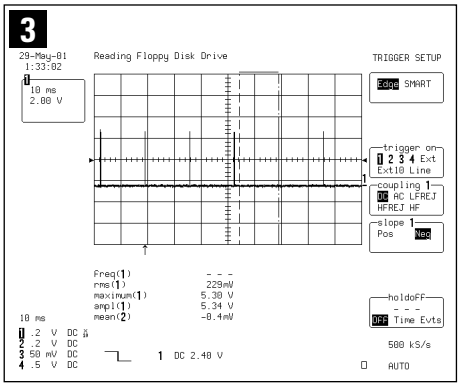
1



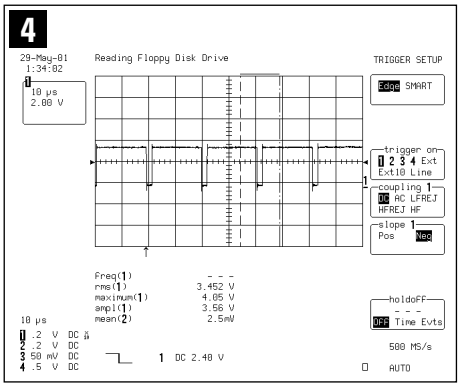
2



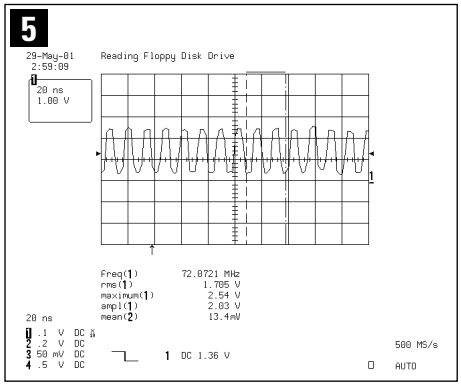
3



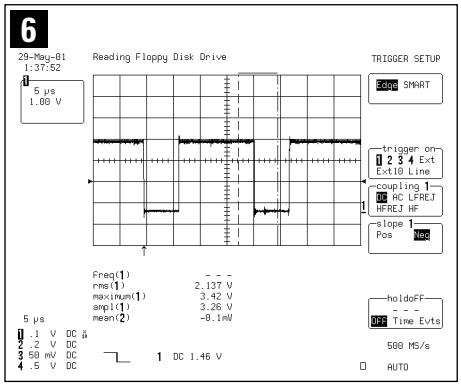
4



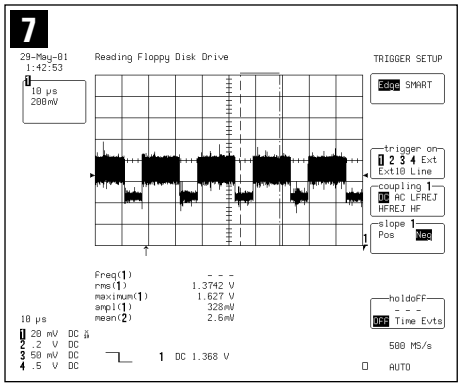
5



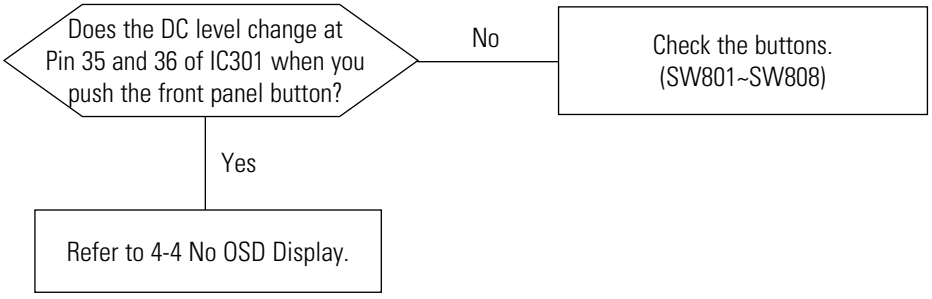
6



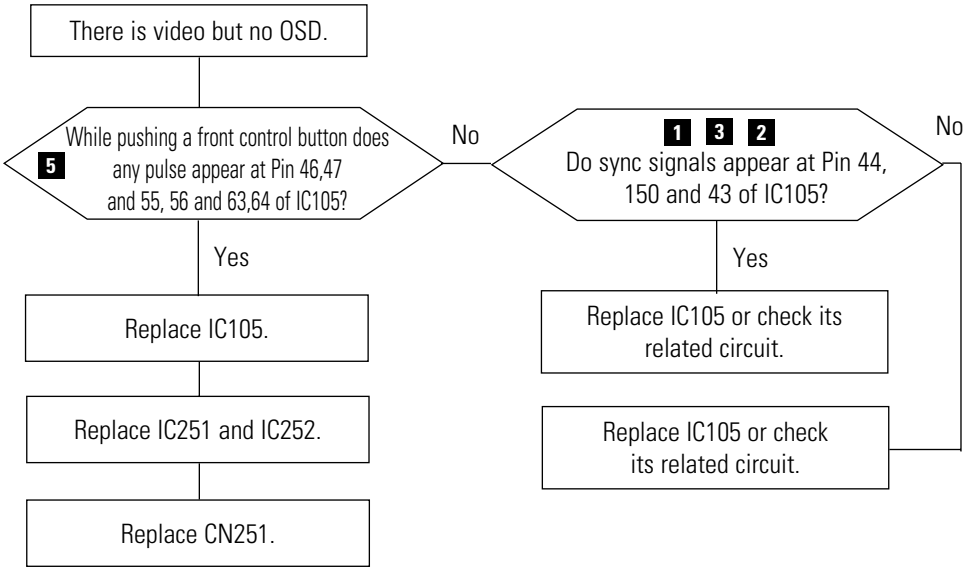
7



4-3 User Controls Don't Work

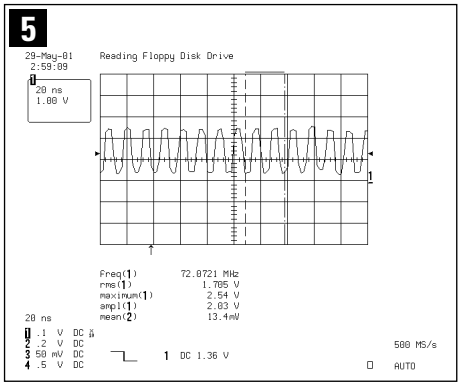

Does the DC level change at Pin 35 and 36 of IC301 when you push the front panel button?
No
Check the buttons. (SW801~SW808)
Yes
Refer to 4-4 No OSD Display.

4-4 No OSD

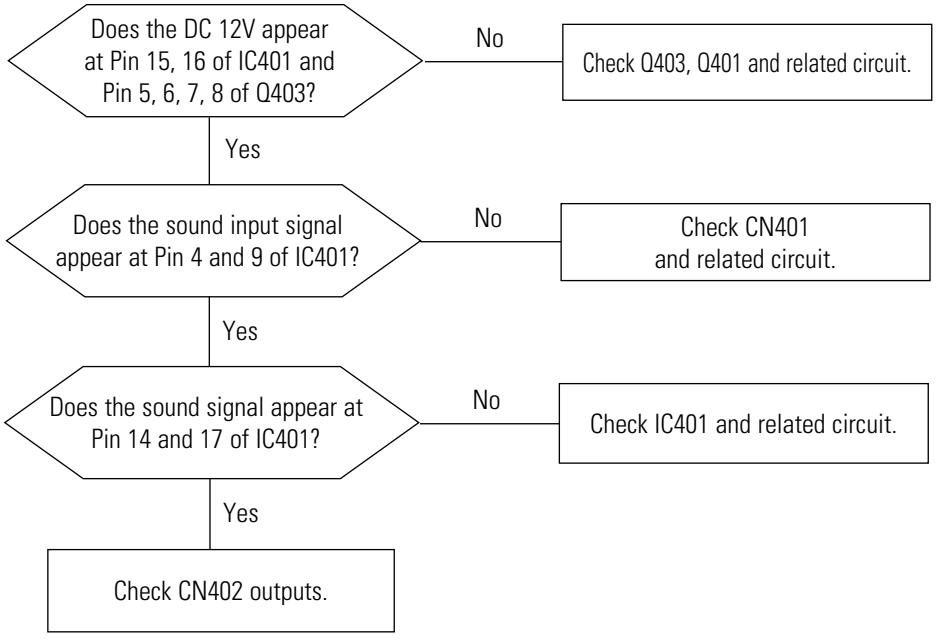

There is video but no OSD.
5
While pushing a front control button does any pulse appear at Pin 46,47 and 55, 56 and 63,64 of IC105?
No
1 3 2
Do sync signals appear at Pin 44, 150 and 43 of IC105?
No
Yes
Yes
Replace IC105.
Replace IC105 or check its related circuit.
Replace IC251 and IC252.
Replace IC105 or check its related circuit.
Replace CN251.

WAVEFORMS

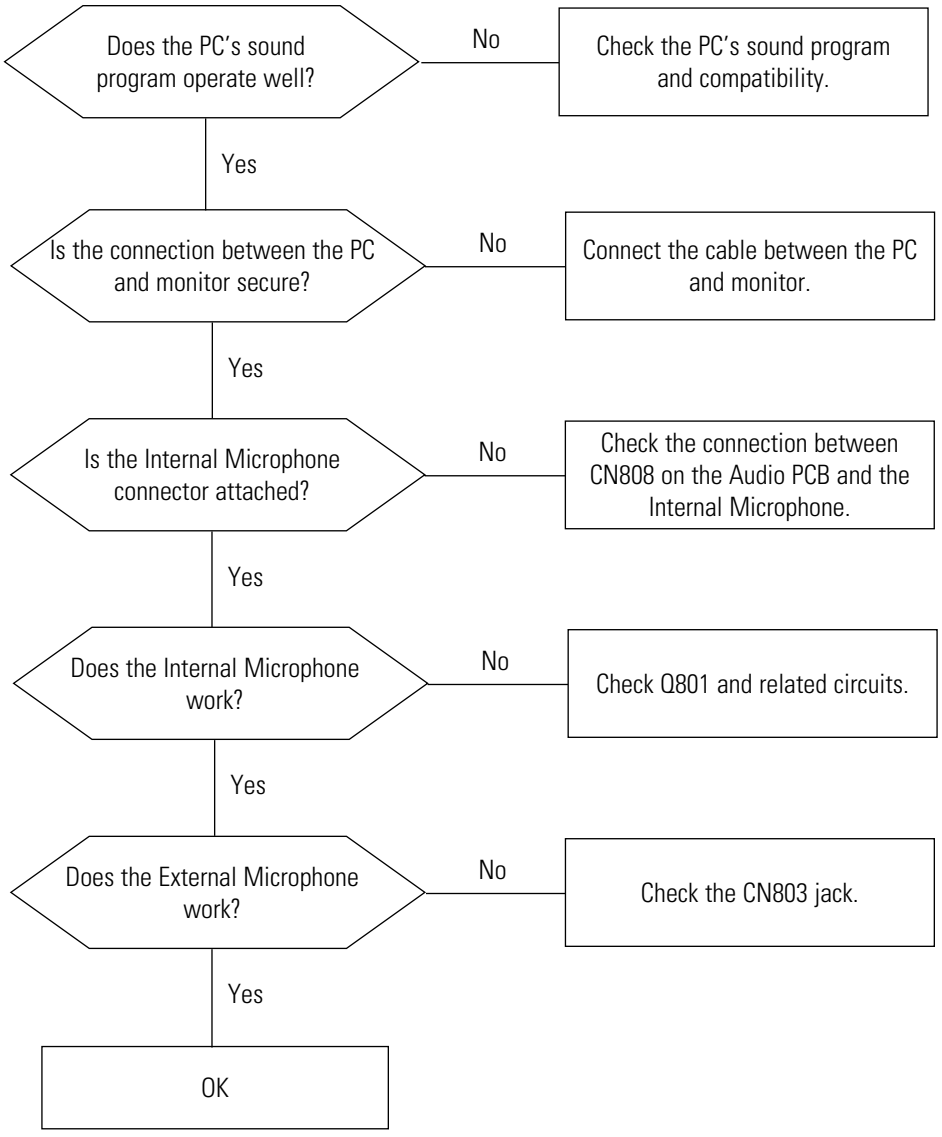
5



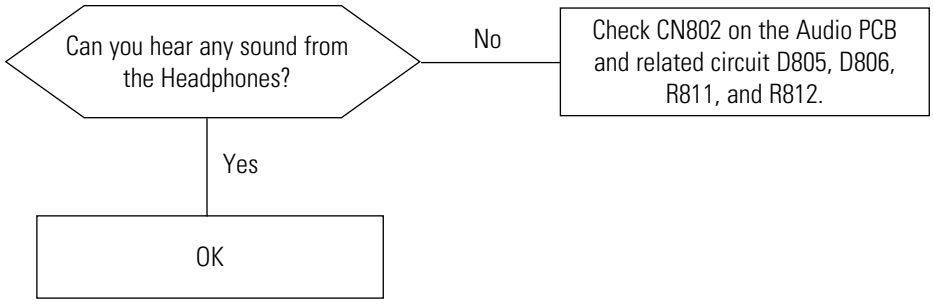
4-5 No SOUND (GH15MS)


Does the DC 12V appear at Pin 15, 16 of IC401 and Pin 5, 6, 7, 8 of Q403?
No
Check Q403, Q401 and related circuit.
Yes
Does the sound input signal appear at Pin 4 and 9 of IC401?
No
Check CN401 and related circuit.
Yes
Does the sound signal appear at Pin 14 and 17 of IC401?
No
Check IC401 and related circuit.
Yes
Check CN402 outputs.

4-6 Microphones Don't Work



4-7 Headphones Don't Work


Can you hear any sound from the Headphones?
No
Check CN802 on the Audio PCB and related circuit D805, D806, R811, and R812.
Yes
OK